**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) A method in a data processing system for processing instructions by a processing unit that has a standard instruction set, the method comprising:

using, by an encryption algorithm each time the data processing system is rebooted, a different one of a plurality of different instruction maps to dynamically remap the standard instruction set to create a new instruction set; and

~~dynamically setting an instruction set for the processing unit using a selected instruction map, wherein the selected instruction map is selected as one being different from a normal instruction map for the processing unit; and~~

processing, by the processing unit, only those [[the]] instructions that use ~~at the processor using~~ the new instruction set~~, wherein a set of authorized instructions are encoded using the selected instruction map~~.

2. (Currently amended) The method of claim 1, further comprising:

performing the dynamic remapping during execution of an initial program load (IPL) process and before the data processing system begins executing an operating system.

~~wherein a new instruction map is selected each time the data processing system is started.~~

3. (Currently amended) The method of claim 1, wherein each one of the plurality of different instruction maps ~~the instruction map~~ is an opcode map.

4. (Currently amended) The method of claim 1 further comprising:

encoding a set of instructions from a trusted computer base using the one of the plurality of different instruction maps ~~selected instruction map~~ to form a set of encoded instructions; and

sending the set of encoded instructions to the processing unit for execution.

5. (Original) The method of claim 1, wherein the processing unit is at least one processor.

6. (Original) The method of claim 4, wherein the encoding step and the sending step are performed by a program loader.

7. (Currently amended) The method of claim 1 further comprising:

responsive to an event, executing a process to select the one of the plurality of different instruction maps ~~selected instruction map~~.

8. (Currently amended) The method of claim 7, wherein the process uses a machine serial number and a number of boot cycles to select the one of the plurality of different instruction maps ~~selected instruction map~~.

9. (Original) The method of claim 7, wherein the event is at least one of an initialization of the data processing system and a user input.

10. (Currently amended) The method of claim 1, wherein the new ~~selected~~ instruction set is created [[set]] using a first one of the plurality of different instruction maps ~~selected instruction map~~ when code is executed by a first privilege level and wherein a second one of the plurality of different instruction maps is used ~~selected instruction map is used as the instruction set for the processing unit~~ when code is executed by a second privilege level.

11. (Currently amended) A computer program product, which is stored in a computer recordable ~~readable~~ medium, for processing instructions by a processing unit, which has a standard instruction set, in a data processing system, the computer program product comprising:

first instructions for using, by an encryption algorithm each time the data processing system is rebooted, a different one of a plurality of different instruction maps to dynamically remap the standard instruction set to create a new instruction set; and

~~first instructions for dynamically setting an instruction set for the processing unit using a selected instruction map, wherein the selected instruction map is selected as one being different from a normal instruction map for the processing unit; and~~

second instructions for processing, by the processing unit, only those [[the]] instructions that use ~~at the processor using~~ the new instruction set~~, wherein a set of authorized instructions are encoded using the selected instruction map~~.

12. (Currently amended) The computer program product of claim 11, further comprising:

third instructions for performing the dynamic remapping during execution of an initial program load (IPL) process and before the data processing system begins executing an operating system.

~~wherein a new instruction map is selected each time the data processing system is started.~~

13. (Currently amended) The computer program product of claim 11, wherein each one of the plurality of different instruction maps ~~the instruction map~~ is an opcode map.

14. (Currently amended) The computer program product of claim 11 further comprising:

third instructions for encoding a set of instructions from a trusted computer base using the one of the plurality of different instruction maps ~~selected instruction map~~ to form a set of encoded instructions; and

fourth instructions for sending the set of encoded instructions to the processing unit for execution.

15. (Original) The computer program product of claim 11, wherein the processing unit is at least one processor.

16. (Original) The computer program product of claim 14, wherein the third instructions and the fourth instructions are performed by a program loader.

17. (Currently amended) The computer program product of claim 11 further comprising:

third instructions, responsive to an event, for executing a process to select the one of the plurality of different instruction maps ~~selected instruction map~~.

18. (Currently amended) The computer program product of claim 17, wherein the process uses a machine serial number and a number of boot cycles to select the one of the plurality of different instruction maps ~~selected instruction map~~.

19. (Original) The computer program product of claim 17, wherein the event is at least one of an initialization of the data processing system and a user input.

20. (Currently amended) The computer program product of claim 11, wherein the new ~~selected~~ instruction set is created [[set]] using a first one of the plurality of different instruction maps ~~selected instruction map~~ when code is executed by a first privilege level and wherein a second one of the plurality of different instruction maps is used ~~selected instruction map is used as the instruction set for the processing unit~~ when code is executed by a second privilege level.

21. (Currently amended) A data processing system for processing instructions by a processing unit that uses a standard instruction set, the data processing system comprising:

remapping means for using, by an encryption algorithm each time the data processing system is rebooted, a different one of a plurality of different instruction maps to dynamically remap the standard instruction set to create a new instruction set; and

~~dynamically setting means for dynamically setting an instruction set for the processing unit using a selected instruction map, wherein the selected instruction map is selected as one being different from a normal instruction map for the processing unit; and~~

processing means for processing, by the processing unit, only those [[the]] instructions that use ~~at the processor using~~ the new instruction set~~, wherein a set of authorized instructions are encoded using the selected instruction map~~.

22. (Currently amended) The data processing system of claim 21, further comprising:

performing means for performing the dynamic remapping during execution of an initial program load (IPL) process and before the data processing system begins executing an operating system.

~~wherein a new instruction map is selected each time the data processing system is started.~~

23. (Currently amended) The data processing system of claim 21, wherein each one of the plurality of different instruction maps ~~the instruction map~~ is an opcode map.

24. (Currently amended) The data processing system of claim 21 further comprising:

encoding means for encoding a set of instructions from a trusted computer base using the one of the plurality of different instruction maps ~~selected instruction map~~ to form a set of encoded instructions; and

sending means for sending the set of encoded instructions to the processing unit for execution.

25. (Currently amended) A data processing system comprising:

a bus system;

a memory connected to the bus system, wherein the memory includes a set of instructions; and

a processing unit, which has a standard instruction set, connected to the bus system, wherein the processing unit executes a set of instructions to use, by an encryption algorithm each time the data processing system is rebooted, a different one of a plurality of different instruction maps to dynamically remap the standard instruction set to create a new instruction set; and process only those instructions that use the new instruction set.

~~dynamically set an instruction set for the processing unit using a selected instruction map, wherein the selected instruction map is selected as one being different from a normal instruction map for the processing unit; and process the instructions at the processor using the instruction set, wherein a set of authorized instructions are encoded using the selected instruction map.~~